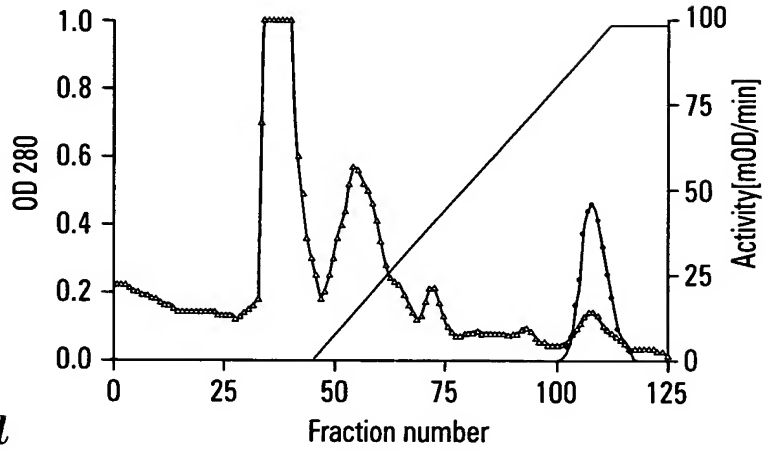

Fig. 1a

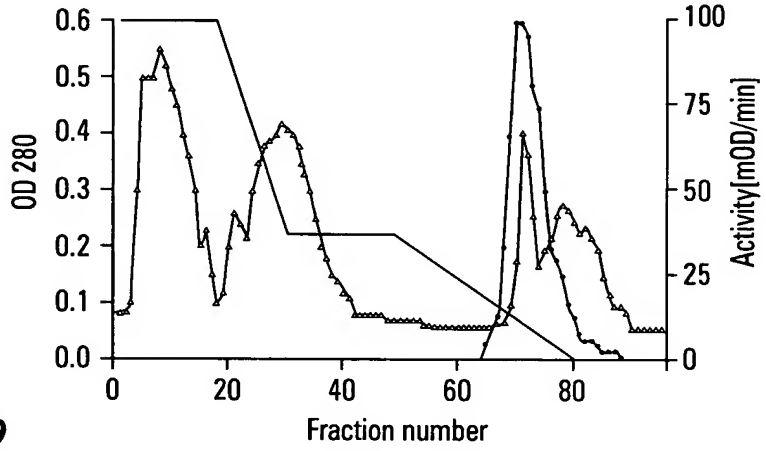

Fig. 1b

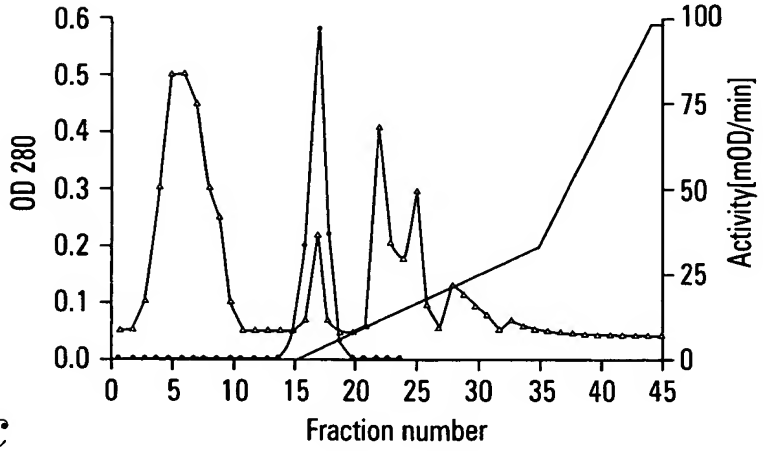

Fig. 1c

Fig. 2

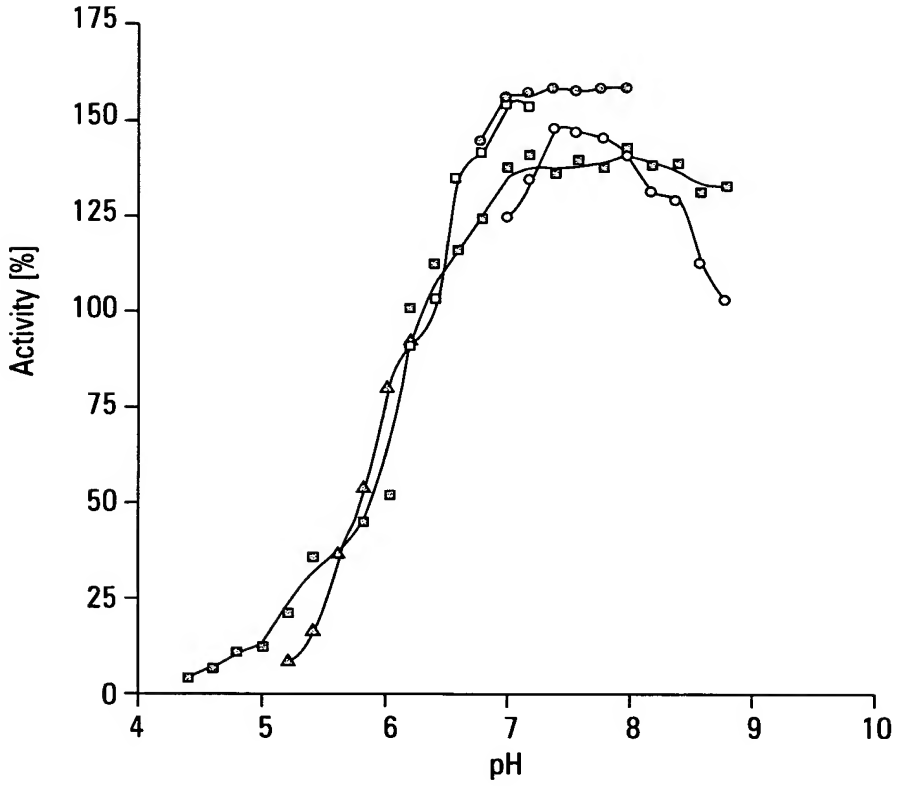

Fig. 3

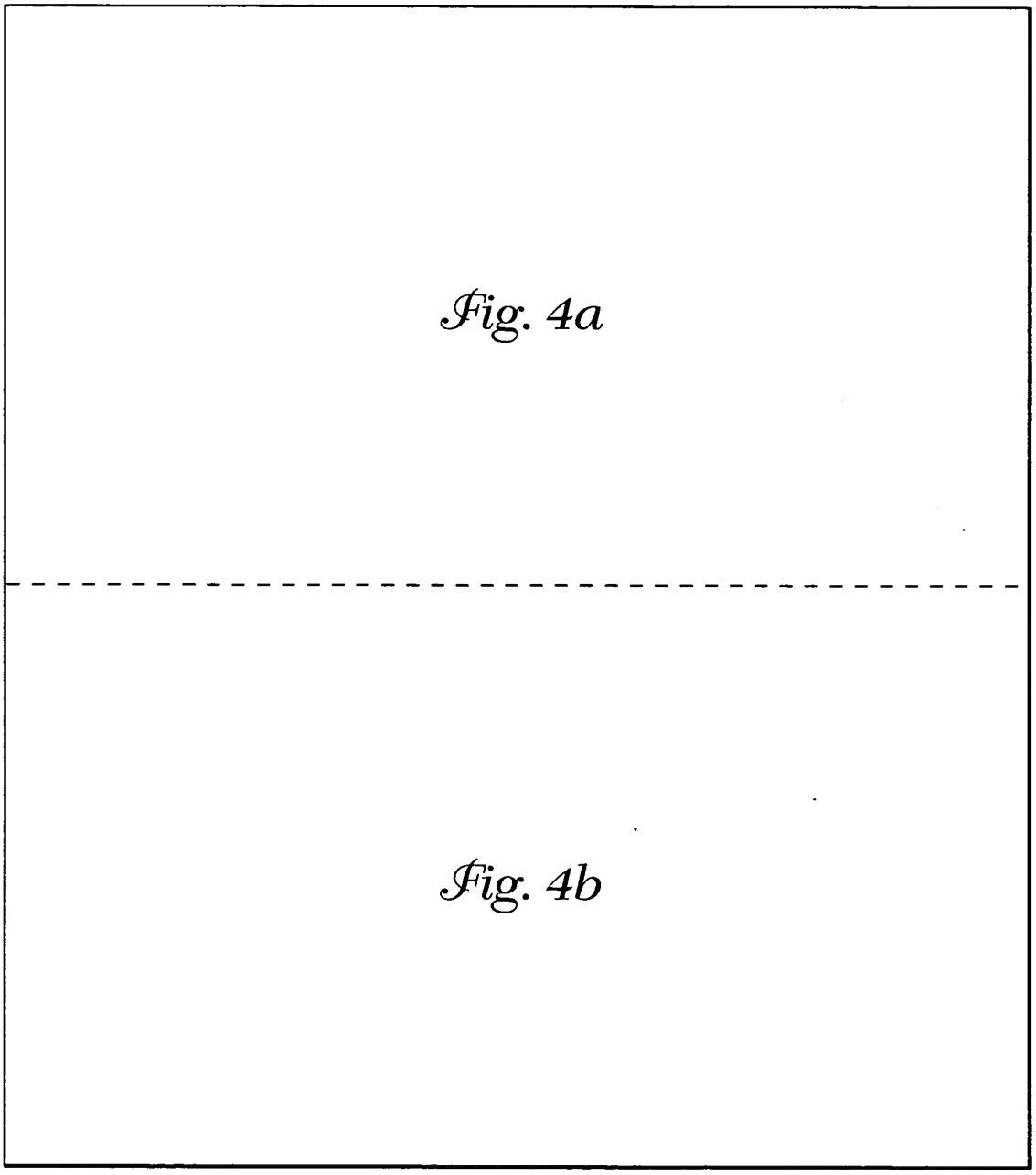

Fig. 4a

Fig. 4b

Fig. 4

Fig. 4a

```
SEQ ID NO:1  atgcaaatgaaattaaaaagtattcttctcggagcagccctgctgttgggtgcttcaggggtagccaaagccgacaaaggcatgtggctc     90
SEQ ID NO:2  M  Q  M  K  L  K  S  I  L  L  G  A  A  L  L  L  G  A  S  G  V  A  K  A  D  K  G  M  W  L     30

             ctcaacgaactcaatcaggagaatctggatcgaatgcgtgagctcggctttacgctcccgttggattcgctctacagtttcgacaagccg    180
             L  N  E  L  N  Q  E  N  L  D  R  M  R  E  L  G  F  T  L  P  L  D  S  L  Y  S  F  D  K  P     60

             tccattgccaatgccgtggttatcttcggtggcggatgtaccggtatcacagtgtccgatcagggcctgatctttaccaaccaccactgc    270
             S  I  A  N  A  V  V  I  F  G  G  G  C  T  G  I  T  V  S  D  Q  G  L  I  F  T  N  H  H  C     90

             ggatacggtgctatccagagccaaagcacggtggatcacgactatctgcgcgatggtttcgtttctcgcacgatgggtgaggagcttccg    360
             G  Y  G  A  I  Q  S  Q  S  T  V  D  H  D  Y  L  R  D  G  F  V  S  R  T  M  G  E  E  L  P    120

             attccgggtctttccgtgaagtatctgcgcaagatcgtgaaggtaacggacaaggtagaaggacagctcaagggtatcactgacgagatg    450
             I  P  G  L  S  V  K  Y  L  R  K  I  V  K  V  T  D  K  V  E  G  Q  L  K  G  I  T  D  E  M    150

             gagcgtctgcgcaaagctcaggaggtatgccaagaactggccaaaaaagaaaatgcagacgagaaccaactctgcatcgtagagcctttc    540
             E  R  L  R  K  A  Q  E  V  C  Q  E  L  A  K  K  E  N  A  D  E  N  Q  L  C  I  V  E  P  F    180

             tattccaacaacgaatacttcctcatcgtctacgatgtattcaaggacgttcgtatggtatttgctcctcccagctctgtaggtaagttc    630
             Y  S  N  N  E  Y  F  L  I  V  Y  D  V  F  K  D  V  R  M  V  F  A  P  P  S  S  V  G  K  F    210

             ggaggcgatacggacaactggatgtggccgcgtcacacgggcgacttcagcgtattccgcgtgtatgccggtgccgacaaccggccggcc    720
             G  G  D  T  D  N  W  M  W  P  R  H  T  G  D  F  S  V  F  R  V  Y  A  G  A  D  N  R  P  A    240

             gaatacagcaaggacaataaaccctataagcccgtttacttcgctgccgtatccatgcaaggctacaaggctgacgactatgccatgacc    810
             E  Y  S  K  D  N  K  P  Y  K  P  V  Y  F  A  A  V  S  M  Q  G  Y  K  A  D  D  Y  A  M  T    270

             atcggtttcccgggcagtacggatcgctacctcacttcttggggtgtggaagatcgtatcgaaaacgagaacaatcctcgtatcgaagtt    900
             I  G  F  P  G  S  T  D  R  Y  L  T  S  W  G  V  E  D  R  I  E  N  E  N  N  P  R  I  E  V    300

             cgcggtatcaagcaaggcatctggaaggaagccatgagcgcagatcaggctacccgtatcaaatatgccagcaagtatgctcagagtgct    990
             R  G  I  K  Q  G  I  W  K  E  A  M  S  A  D  Q  A  T  R  I  K  Y  A  S  K  Y  A  Q  S  A    330

             aactattggaagaattcgatcggtatgaaccgcggtctcgctcgtcttgacgtgataggtcgtaagcgtgccgaggaaagagcattcgca   1080
             N  Y  W  K  N  S  I  G  M  N  R  G  L  A  R  L  D  V  I  G  R  K  R  A  E  E  R  A  F  A    360
```

Fig. 4b

```
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D  W  I  R  K  N  G  K  S  A  V  Y  G  D  V  L  S  S  L  E  K  A  Y  K  E  G  A  K  A  N     390

cgtgagatgacttatttgagcgagacgctcttcggtggtaccgaggtggttcgttttgcacagtttgccaacgcattggctacaaatcct  1260
R  E  M  T  Y  L  S  E  T  L  F  G  G  T  E  V  V  R  F  A  Q  F  A  N  A  L  A  T  N  P     420

gatgctcatgccggtatcctcaaatcgcttgacgacaagtacaaagactacctcccctcgctcgaccgtaaggtgctgcccgccatgctc  1350
D  A  H  A  G  I  L  K  S  L  D  D  K  Y  K  D  Y  L  P  S  L  D  R  K  V  L  P  A  M  L     450

gatattgtacgccggcgtatccctgccgacaagctccccgatatattcaagaatgtaatcgacaagaaattcaaaggcgacacgaagaag  1440
D  I  V  R  R  R  I  P  A  D  K  L  P  D  I  F  K  N  V  I  D  K  K  F  K  G  D  T  K  K     480

tatgcagacttcgtattcgacaagagtgtggttccttatagcgacaagttccatgccatgctcaagtccatggacaaggaaaagtttgcc  1530
Y  A  D  F  V  F  D  K  S  V  V  P  Y  S  D  K  F  H  A  M  L  K  S  M  D  K  E  K  F  A     510

aaggctatcgagaaagatccggcagtagagctttccaagagcgtaatagctgctgctcgcgctattcaggccgatgcgatggccaatgcc  1620
K  A  I  E  K  D  P  A  V  E  L  S  K  S  V  I  A  A  A  R  A  I  Q  A  D  A  M  A  N  A     540

tatgccattgagaagggcaagcgtcttttctttgccggtttgcgtgagatgtaccccggacgtgctctgccgagcgatgccaacttcacc  1710
Y  A  I  E  K  G  K  R  L  F  F  A  G  L  R  E  M  Y  P  G  R  A  L  P  S  D  A  N  F  T     570

atgcgtatgagctacggctccatcaagggatatgaaccgcaggacggtgcctggtacaactatcatacgacaggcaagggcgtattggag  1800
M  R  M  S  Y  G  S  I  K  G  Y  E  P  Q  D  G  A  W  Y  N  Y  H  T  T  G  K  G  V  L  E     600

aagcaggatcctaagagcgatgagtttgccgtacaggagaatatcctcgacctcttccgcaccaaaaactatggtcgctatgccgagaac  1890
K  Q  D  P  K  S  D  E  F  A  V  Q  E  N  I  L  D  L  F  R  T  K  N  Y  G  R  Y  A  E  N     630

ggtcagctccatatcgctttcctatcgaacaacgacatcacgggcggtaactccggtagccccgtattcgataagaacggccgtctgatc  1980
G  Q  L  H  I  A  F  L  S  N  N  D  I  T  G  G  N  S  G  S  P  V  F  D  K  N  G  R  L  I     660

ggtcttgctttcgatggcaactgggaagctatgagtggtgacatcgagttcgaacccgatctgcagcgcacaatcagcgtggacatccgc  2070
G  L  A  F  D  G  N  W  E  A  M  S  G  D  I  E  F  E  P  D  L  Q  R  T  I  S  V  D  I  R     690

tacgttctcttcatgattgacaaatggggtcagtgcccccgtctcatccaagagctgaagttgatctaa                        2139
Y  V  L  F  M  I  D  K  W  G  Q  C  P  R  L  I  Q  E  L  K  L  I  *                           713
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SEQ ID No:3   DPP-7  644 TGGNSGSPVFDKNGRLIGLAFDGNWEAMSGDIEFEPDLQRTISVDIRYVLFM 695
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Fig. 5

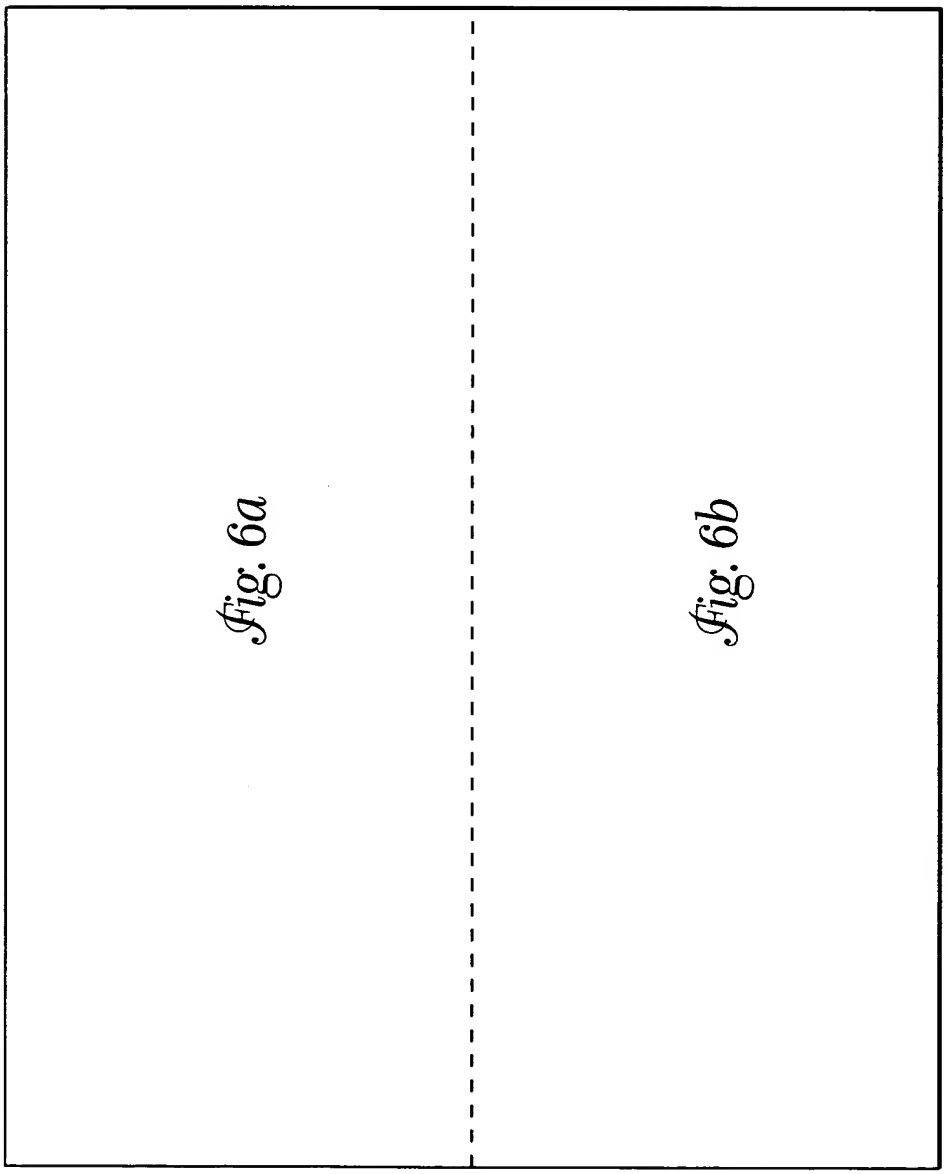

Fig. 6b

10/10

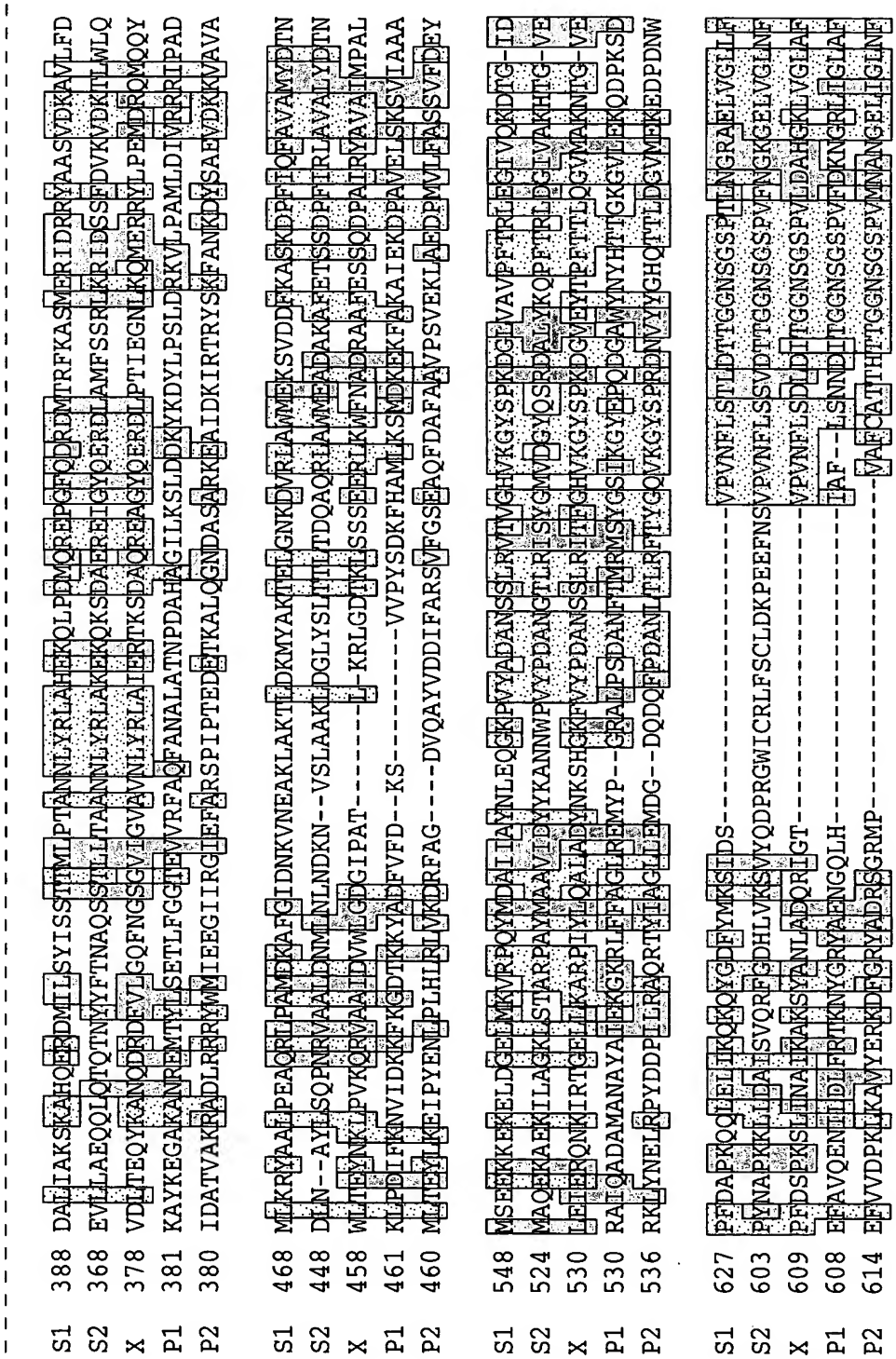

Fig. 6a